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HEALTH RESOURCES IN NORTH CAROLINA: A FACT BOOK

UNIVERSITY OF NORTH CAROLINA
AREA HEALTH EDUCATION CENTERS PROGRAM

JANUARY, 1975

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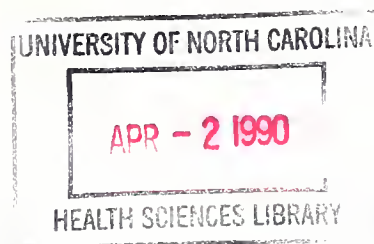


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HEALTH RESOURCES IN NORTH CAROLINA:

A FACT BOOK

University of North Carolina
Area Health Education Centers Program



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FOREWORD

In 1974, the General Assembly approved a recommendation of the Board of Governors of the University of North Carolina to strengthen and expand the Area Health Education Center (AHEC) Program in North Carolina. As a part of the AHEC Program, a system of monitoring has been established which includes the publication of a series of reports to make available timely, comprehensive, and relevant information about manpower and facilities in North Carolina. Such information can help to determine the effectiveness of existing or future programs.

The monitoring responsibility for the AHEC Program was assigned to the Division of Education and Research in Community Medical Care in the Dean's Office, the School of Medicine, Chapel Hill. To carry out the monitoring function, the Division of Education and Research in Community Medical Care has contracted with the Health Services Research Center at Chapel Hill for these services.

In October 1974, AHEC published Inpatient Utilization of General Hospitals in North Carolina, which addressed the movement of patients between counties and areas of the State. The present report, Health Resources in North Carolina: A Fact Book, has been prepared to supply baseline statistics for the year 1974 in selected areas of health resources in North Carolina. The booklet is intended as a factual compilation of currently automated data on selected demographic characteristics, health manpower and health facilities by each county and AHEC area in North Carolina. Information on several categories of manpower



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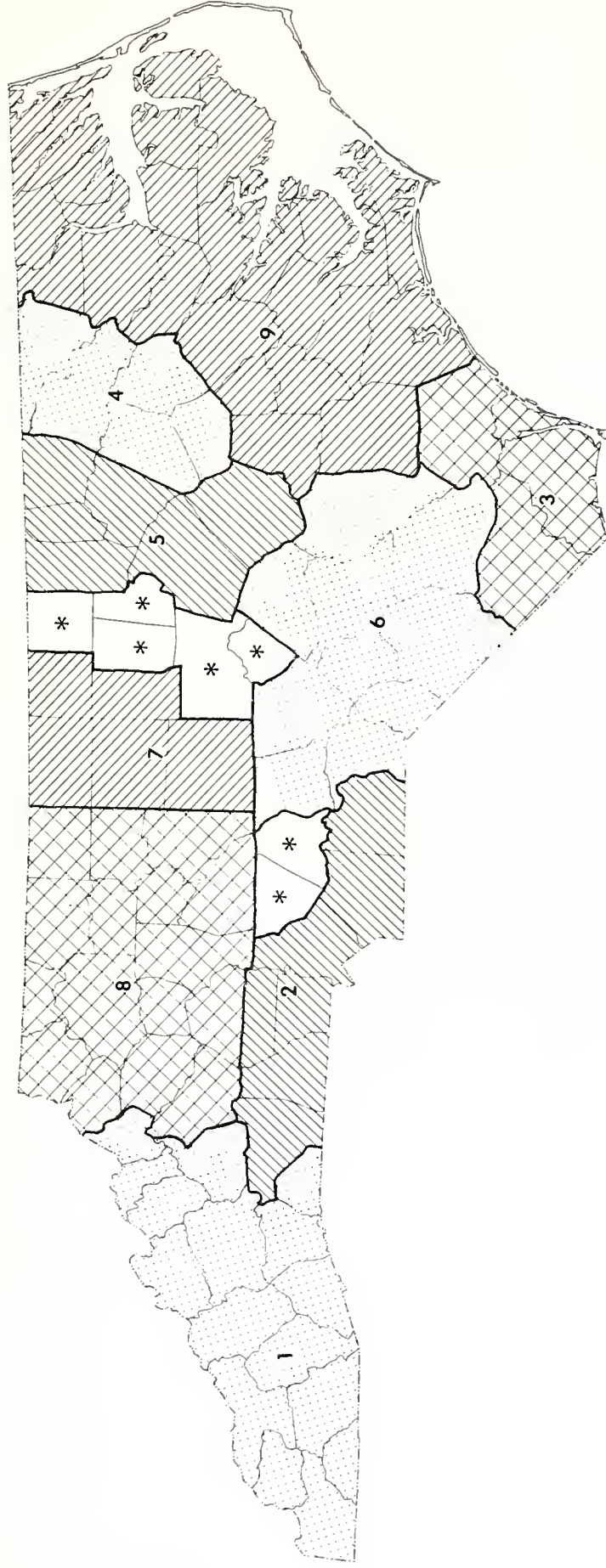
and facilities is not included because the data have not yet been automated. The production of physicians is an important issue in North Carolina today, so that appendices are presented which provide a comparison of North Carolina physician manpower with that of similar areas of the United States and a comparison of North Carolina physician projections with currently available "actual count" data. Analysis and conclusions to be drawn from the presentations are left to the reader.

Data are presented for counties, AHEC areas, and state totals. An AHEC is established by a written agreement between a public or non-profit hospital and the University of North Carolina Health Sciences Center. Hospitals, or groups of hospitals, which form an AHEC must have the size and capability for serving a several county area with responsibility for the undergraduate, graduate, and continuing education of all forms of health manpower. As shown in Map 1, there are currently nine AHEC areas, five operational and four in the development phase. A county reference map is provided as Appendix III for the identification of individual counties.

The AHEC Program wishes to express its appreciation to the manpower licensing boards, to the Health Services Research Center, and to Mr. James Begun and Mr. Clark Luikart of the AHEC Program staff who with care and diligence worked many hours to bring together a series of complicated sets of data in a meaningful form which we hope the reader will find a useful source document.

Glenn Wilson
AHEC Program Director
University of North Carolina
at Chapel Hill

North Carolina Health Education Centers Program, 1974



1. ASHEVILLE: Memorial Mission Hospital
St. Joseph's Hospital

2. CHARLOTTE: Charlotte Memorial Hospital

3. WILMINGTON: New Hanover Memorial Hospital

4. AREA L: Nash General, Edgemore General,
Wilson Memorial, and Halifax
Memorial Hospital

5. RALEIGH: Wake Memorial Hospital

6. FAYETTEVILLE: Cumberland County Hospital System,
Womack Army Hospital (Ft. Bragg),
Veterans Administration Hospital

7. GREENSBORO: Moses Cone Hospital

8. NORTHWEST: In cooperation with Bowman Gray
School of Medicine

9. EAST: Eastern Area Health Education Center

*AHEC affiliation not yet determined

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I. HEALTH MANPOWER

TABLE 1: Distribution of Patient Care and Primary Care Physicians by County, 1973.

COUNTY NAME	PATIENT CARE PHYS		PRIMARY CARE PHYS	
	NUMBER	PHYS/POP	NUMBER	PHYS/POP
Alamance	79	1:1219	47	1:2050
Alexander	7	1:2780	5	1:3893
Alleghany	7	1:1162	5	1:1626
Anson	6	1:3914	4	1:5872
Ashe	7	1:2795	5	1:3914
Avery	13	1:973	11	1:1150
Beaufort	25	1:1439	13	1:2767
Bertie	6	1:3421	4	1:5132
Bladen	10	1:2647	8	1:3309
Brunswick	7	1:3460	7	1:3460
Buncombe	207	1:700	81	1:1790
Burke	54	1:1117	29	1:2081
Cabarrus	61	1:1223	31	1:2407
Caldwell	26	1:2180	18	1:3149
Camden	1	1:5453	1	1:5453
Carteret	22	1:1436	10	1:3160
Caswell	1	1:19,055	1	1:19,055
Catawba	86	1:1056	47	1:1933
Chatham	13	1:2273	7	1:4222
Cherokee	10	1:1633	7	1:2332
Chowan	9	1:1196	8	1:1345
Clay	1	1:5180	1	1:5180
Cleveland	60	1:1209	38	1:1909
Columbus	19	1:2470	15	1:3129
Craven	47	1:1330	25	1:2502

TABLE 1, cont'd

COUNTY NAME	PATIENT CARE PHYS		PRIMARY CARE PHYS	
	NUMBER	PHYS/POP	NUMBER	PHYS/POP
Cumberland	98	1:2163	50	1:4240
Currituck	2	1:3488	2	1:3488
Dare	3	1:2331	2	1:3497
Davidson	44	1:2173	33	1:2897
Davie	9	1:2095	6	1:3142
Duplin	16	1:2375	11	1:3455
Durham	806	1:164	333	1:398
Edgecombe	61	1:858	37	1:1414
Forsyth	462	1:463	174	1:1231
Franklin	8	1:3352	7	1:3831
Gaston	83	1:1788	53	1:2800
Gates	2	1:4262	2	1:4262
Graham	3	1:2187	3	1:2187
Granville	34	1:963	15	1:2184
Greene	1	1:14,967	1	1:14,967
Guilford	312	1:924	158	1:1826
Halifax	26	1:2072	17	1:3169
Harnett	19	1:2614	14	1:3547
Haywood	31	1:1345	20	1:2085
Henderson	47	1:910	30	1:1426
Hertford	17	1:1384	12	1:1960
Hoke	9	1:1826	3	1:5478
Hyde	1	1:5571	1	1:5571
Iredell	51	1:1415	36	1:2005
Jackson	13	1:1661	7	1:3084

TABLE 1, cont'd

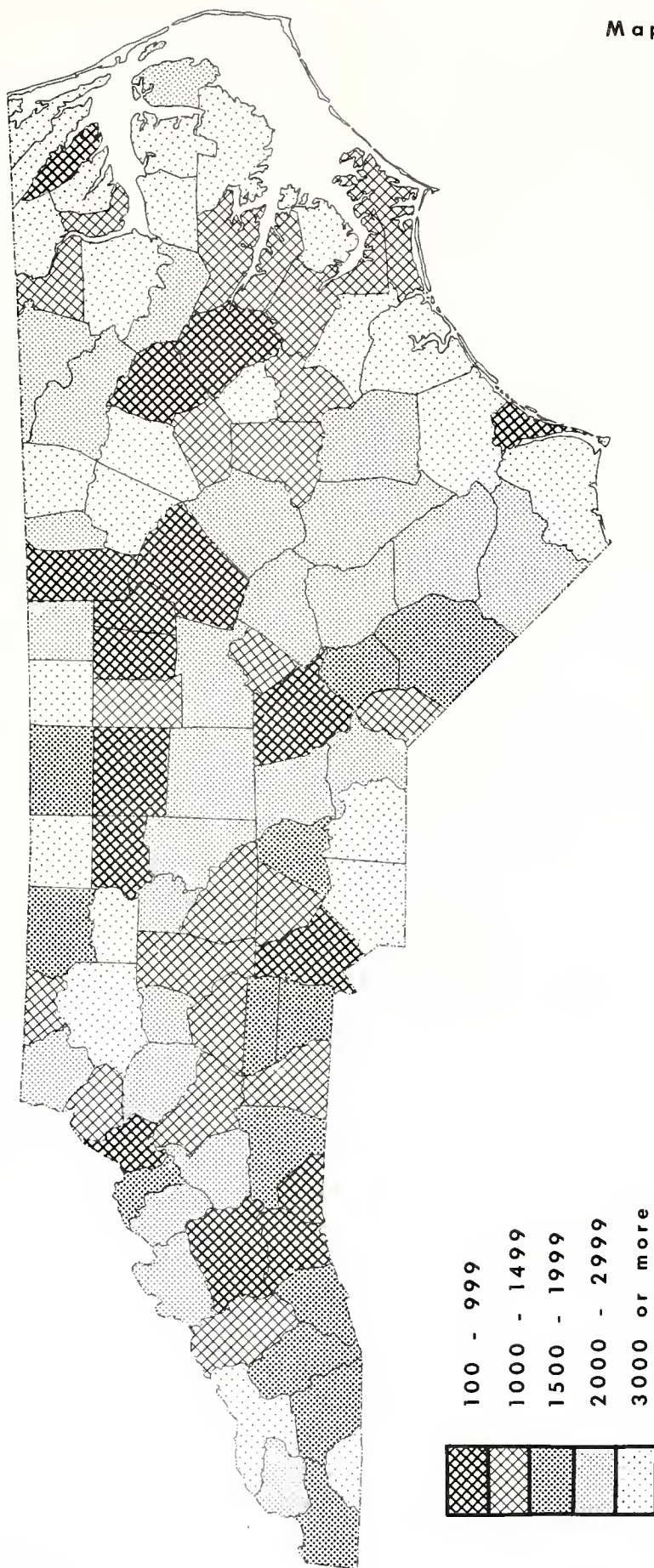
COUNTY NAME	PATIENT CARE PHYS		PRIMARY CARE PHYS	
	NUMBER	PHYS/POP	NUMBER	PHYS/POP
Johnston	28	1:2204	20	1:3086
Jones	2	1:4889	2	1:4889
Lee	27	1:1128	20	1:1523
Lenoir	48	1:1150	26	1:2123
Lincoln	17	1:1922	12	1:2723
McDowell	11	1:2786	9	1:3405
Macon	8	1:1973	5	1:3157
Madison	7	1:2286	6	1:2667
Martin	10	1:2473	8	1:3091
Mecklenburg	494	1:717	225	1:1576
Mitchell	7	1:1921	3	1:4482
Montgomery	9	1:2140	5	1:3853
Moore	52	1:750	20	1:1952
Nash	7	1:8446	7	1:8446
New Hanover	122	1:680	47	1:1765
Northampton	9	1:2667	9	1:2667
Onslow	25	1:4125	16	1:6445
Orange	396	1:145	167	1:345
Pamlico	2	1:4733	2	1:4733
Pasquotank	27	1:993	17	1:1577
Pender	4	1:4537	4	1:4537
Perquimans	1	1:8351	1	1:8351
Person	9	1:2879	6	1:4319
Pitt	78	1:947	38	1:1944
Polk	15	1:782	7	1:1676

TABLE 1, cont'd

COUNTY NAME	PATIENT CARE PHYS		PRIMARY CARE PHYS	
	NUMBER	PHYS/POP	NUMBER	PHYS/POP
Randolph	32	1:2386	24	1:3181
Richmond	16	1:2493	9	1:4432
Robeson	53	1:1600	31	1:2736
Rockingham	43	1:1683	31	1:2335
Rowan	68	1:1324	38	1:2369
Rutherford	30	1:1577	18	1:2629
Sampson	22	1:2043	16	1:2809
Scotland	19	1:1417	13	1:2071
Stanly	23	1:1861	17	1:2518
Stokes	6	1:3963	4	1:5945
Surry	26	1:1977	18	1:2856
Swain	2	1:3930	1	1:7861
Transylvania	12	1:1642	8	1:2464
Tyrrell	1	1:3806	1	1:3806
Union	17	1:3218	12	1:4559
Vance	14	1:2335	11	1:2971
Wake	265	1:862	120	1:1903
Warren	3	1:5270	1	1:15,810
Washington	4	1:3509	3	1:4679
Watauga	17	1:1376	10	1:2340
Wayne	64	1:1334	33	1:2588
Wilkes	16	1:3095	9	1:5502
Wilson	55	1:1045	30	1:1916
Yadkin	5	1:4919	2	1:12,299
Yancey	5	1:2525	5	1:2525
TOTALS	5175	1:982	2602	1:1953

Population Per Patient Care Physician By County, 1973

Map 2



Population Per Primary Care Physician By County, 1973

Map 3

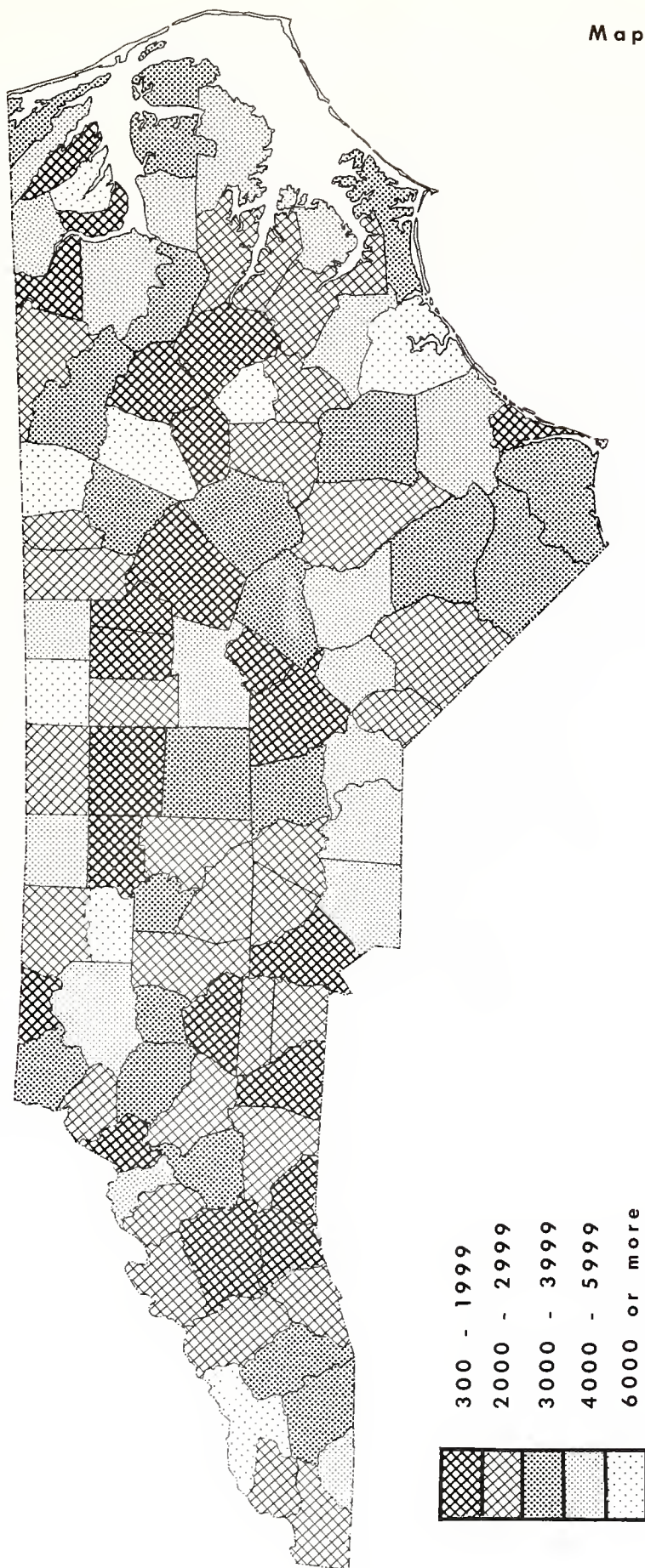


TABLE 2: Distribution of Patient Care and Primary Care Physicians by AHEC Area, 1973.

AHEC AREA	PATIENT CARE PHYS		PRIMARY CARE PHYS	
	NUMBER	PHYS/POP	NUMBER	PHYS/POP
I. Asheville	392	1:1070	204	1:2057
II. Charlotte	707	1:1037	362	1:2027
III. Wilmington	152	1:1133	73	1:2360
IV. Area L	158	1:1562	100	1:2468
V. Raleigh	352	1:1131	174	1:2288
VI. Fayetteville	307	1:1822	169	1:3310
VII. Greensboro	467	1:1183	261	1:2117
VIII. Northwest	891	1:1031	439	1:2093
IX. East	414	1:1657	239	1:2870
X. Other	1335	1:294	581	1:677

TABLE 3: Distribution of Osteopaths by County, 1974.

COUNTY NAME	OSTEOPATHS	
	NUMBER	DO/POP
Alamance	2	1:48,181
Alexander	0	-
Alleghany	0	-
Anson	0	-
Ashe	0	-
Avery	0	-
Beaufort	0	-
Bertie	0	-
Bladen	0	-
Brunswick	0	-
Buncombe	1	1:145,056
Burke	0	-
Cabarrus	0	-
Caldwell	0	-
Camden	0	-
Carteret	0	-
Caswell	0	-
Catawba	0	-
Chatham	0	-
Cherokee	0	-
Chowan	0	-
Clay	0	-
Cleveland	0	-
Columbus	0	-
Craven	1	1:62,554

TABLE 3, cont'd

COUNTY NAME	OSTEOPATHS	
	NUMBER	DO/POP
Cumberland	0	-
Currituck	0	-
Dare	0	-
Davidson	0	-
Davie	0	-
Duplin	0	-
Durham	0	-
Edgecombe	0	-
Forsyth	2	1:107,174
Franklin	0	-
Gaston	0	-
Gates	0	-
Graham	0	-
Granville	0	-
Greene	0	-
Guilford	0	-
Halifax	0	-
Harnett	1	1:49,667
Haywood	0	-
Henderson	0	-
Hertford	0	-
Hoke	0	-
Hyde	0	-
Iredell	0	-
Jackson	1	1:21,593

TABLE 3, cont'd

COUNTY NAME	OSTEOPATHS	
	NUMBER	DO/POP
Johnston	0	-
Jones	0	-
Lee	0	-
Lenoir	0	-
Lincoln	0	-
McDowell	0	-
Macon	0	-
Madison	0	-
Martin	0	-
Mecklenburg	3	1:118,218
Mitchell	0	-
Montgomery	0	-
Moore	1	1:39,048
Nash	0	-
New Hanover	2	1:41,498
Northampton	0	-
Onslow	0	-
Orange	0	-
Pamlico	0	-
Pasquotank	0	-
Pender	0	-
Perquimans	0	-
Person	0	-
Pitt	1	1:73,900
Polk	2	1:5867

TABLE 3, cont'd

COUNTY NAME	OSTEOPATHS	
	NUMBER	DO/POP
Randolph	0	-
Richmond	1	1:39,889
Robeson	1	1:84,842
Rockingham	0	-
Rowan	0	-
Rutherford	0	-
Sampson	0	-
Scotland	0	-
Stanly	0	-
Stokes	0	-
Surry	0	-
Swain	0	-
Transylvania	0	-
Tyrrell	0	-
Union	0	-
Vance	0	-
Wake	0	-
Warren	0	-
Washington	0	-
Watauga	0	-
Wayne	0	-
Wilkes	0	-
Wilson	1	1:57,486
Yadkin	0	-
Yancey	0	-
TOTALS	20	1:254,103

TABLE 4: Distribution of Osteopaths by AHEC Area, 1974.

AHEC AREA	OSTEOPATHS	
	NUMBER	DO/POP
I. Asheville	4	1:104,928
II. Charlotte	3	1:244,616
III. Wilmington	2	1:86,152
IV. Area L	1	1:246,842
V. Raleigh	0	-
VI. Fayetteville	4	1:139,887
VII. Greensboro	2	1:276,383
VIII. Northwest	2	1:459,446
IX. East	2	1:343,046
X. Other	0	-

TABLE 5: Distribution of Dentists and Dental Hygienists
by County, 1974.

COUNTY NAME	DENTISTS		DENTAL HYGIENISTS	
	NUMBER	DDS/POP	NUMBER	DH/POP
Alamance	31	1:3108	17	1:5668
Alexander	3	1:6489	4	1:4866
Alleghany	1	1:8134	1	1:8134
Anson	2	1:11,744	1	1:23,488
Ashe	2	1:9786	0	-
Avery	4	1:3164	5	1:2531
Beaufort	9	1:3998	5	1:7196
Bertie	2	1:10,264	0	-
Bladen	3	1:8826	1	1:26,477
Brunswick	4	1:6056	2	1:12,111
Buncombe	71	1:2043	26	1:5579
Burke	20	1:3018	7	1:8623
Cabarrus	22	1:3392	9	1:8292
Caldwell	11	1:5154	4	1:14,174
Camden	0	-	0	-
Carteret	10	1:3160	6	1:5267
Caswell	2	1:9528	1	1:19,055
Catawba	38	1:2391	14	1:6490
Chatham	8	1:3694	5	1:5910
Cherokee	4	1:4083	0	-
Chowan	4	1:2691	1	1:10,764
Clay	0	-	0	-
Cleveland	20	1:3628	5	1:14,511
Columbus	7	1:6705	0	-
Craven	22	1:2843	9	1:6950

TABLE 5, cont'd

COUNTY NAME	DENTISTS		DENTAL HYGIENISTS	
	NUMBER	DDS/POP	NUMBER	DH/POP
Cumberland	47	1:4512	27	1:7853
Currituck	0	-	0	-
Dare	1	1:6995	1	1:6995
Davidson	20	1:4781	9	1:10,625
Davie	5	1:3771	5	1:3771
Duplin	5	1:7603	1	1:38,015
Durham	62	1:2140	26	1:5103
Edgecombe	25	1:2094	7	1:7477
Forsyth	99	1:2165	42	1:5103
Franklin	3	1:8940	4	1:6705
Gaston	42	1:3534	16	1:9275
Gates	0	-	0	-
Graham	0	-	0	-
Granville	8	1:4095	1	1:32,762
Greene	1	1:14,967	1	1:14,967
Guilford	127	1:2272	82	1:3519
Halifax	7	1:7698	2	1:26,942
Harnett	11	1:4515	3	1:16,555
Haywood	20	1:2068	4	1:10,427
Henderson	22	1:1946	9	1:4756
Hertford	5	1:4706	0	-
Hoke	2	1:8218	0	-
Hyde	0	-	0	-
Iredell	24	1:3008	11	1:6563
Jackson	6	1:3599	0	-

TABLE 5, cont'd

COUNTY NAME	DENTISTS		DENTAL HYGIENISTS	
	NUMBER	DDS/POP	NUMBER	DH/POP
Johnston	13	1:4749	13	1:4749
Jones	2	1:4890	1	1:9779
Lee	11	1:2770	3	1:10,155
Lenoir	21	1:2629	13	1:4246
Lincoln	8	1:4085	5	1:6536
McDowell	8	1:3831	0	-
Macon	5	1:3158	1	1:15,788
Madison	1	1:16,003	0	-
Martin	5	1:4946	1	1:24,730
Mecklenburg	161	1:2203	115	1:3083
Mitchell	4	1:3362	1	1:13,447
Montgomery	5	1:3853	0	-
Moore	11	1:3550	5	1:7809
Nash	2	1:29,561	1	1:59,122
New Hanover	37	1:2243	14	1:5928
Northampton	2	1:12,005	1	1:24,009
Onslow	20	1:5156	11	1:9375
Orange	119	1:485	47	1:1227
Pamlico	0	-	0	-
Pasquotank	11	1:2439	2	1:13,412
Pender	3	1:6050	3	1:6049
Perquimans	1	1:8351	0	-
Person	7	1:3702	4	1:6478
Pitt	21	1:3519	14	1:5278
Polk	7	1:1676	2	1:5867

TABLE 5, cont'd

COUNTY NAME	DENTISTS		DENTAL HYGIENISTS	
	NUMBER	DDS/POP	NUMBER	DH/POP
Randolph	20	1:3818	13	1:5873
Richmond	9	1:4432	5	1:7977
Robeson	17	1:4991	2	1:42,421
Rockingham	18	1:4022	9	1:8044
Rowan	31	1:2904	5	1:18,007
Rutherford	9	1:5260	3	1:15,779
Sampson	7	1:6422	2	1:22,477
Scotland	4	1:6732	0	-
Stanly	9	1:4758	9	1:4758
Stokes	5	1:4756	1	1:23,782
Surry	21	1:2448	5	1:10,283
Swain	3	1:2620	1	1:7861
Transylvania	6	1:3286	1	1:19,713
Tyrrell	0	-	1	1:3806
Union	9	1:6079	2	1:27,357
Vance	11	1:2792	2	1:16,345
Wake	134	1:1705	74	1:3087
Warren	2	1:7905	1	1:15,810
Washington	3	1:4679	1	1:14,038
Watauga	7	1:3343	3	1:7801
Wayne	22	1:3882	18	1:4744
Wilkes	8	1:6191	4	1:12,381
Wilson	16	1:3593	4	1:14,371
Yadkin	6	1:4100	1	1:24,599
Yancey	2	1:6315	1	1:12,629
TOTALS	1706	1:2979	799	1:6361

Population Per Dentist By County, 1974

Map 4

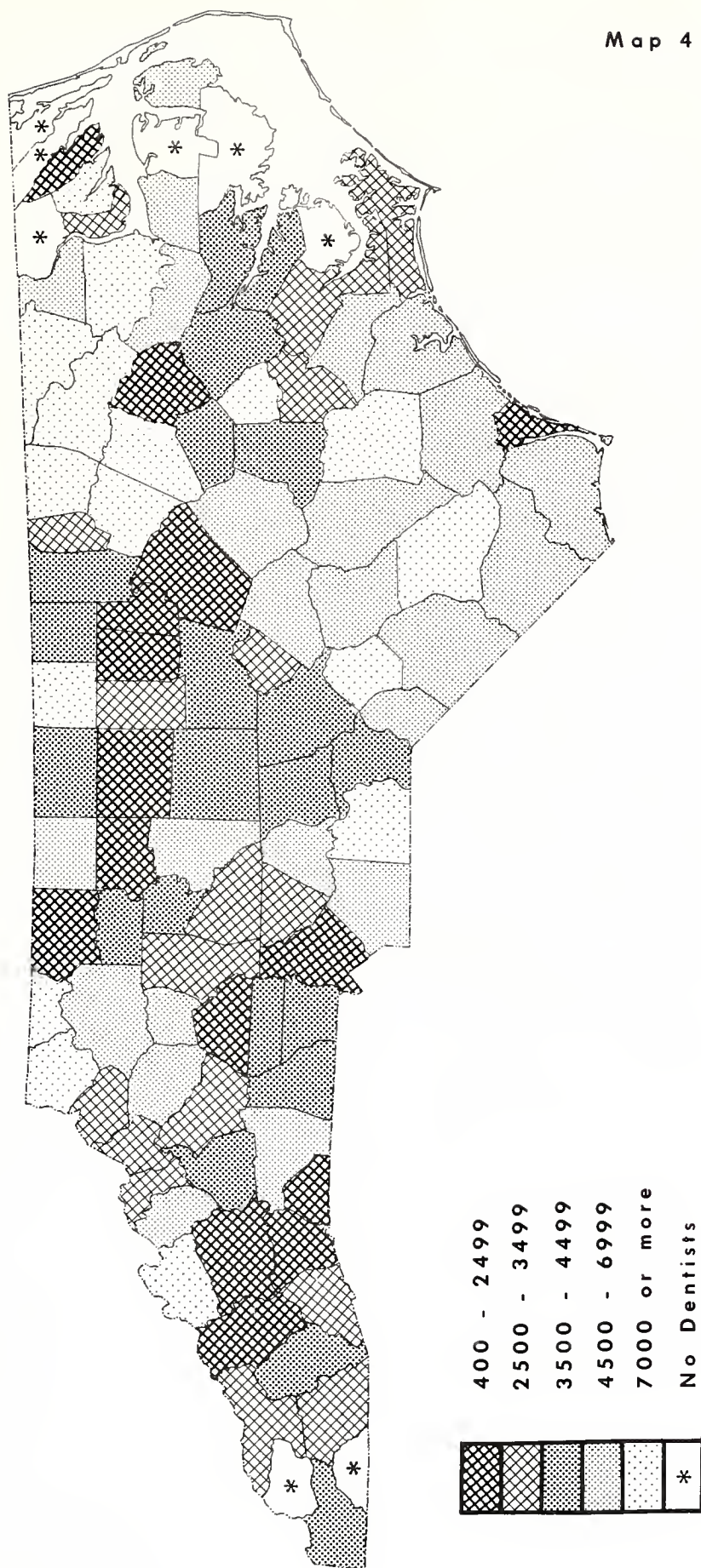


TABLE 6: Distribution of Dentists and Dental Hygienists
by AHEC Area, 1974.

AHEC AREA	DENTISTS		DENTAL HYGIENISTS	
	NUMBER	DDS/POP	NUMBER	DH/POP
I. Asheville	163	1:2575	51	1:8229
II. Charlotte	251	1:2924	147	1:4992
III. Wilmington	51	1:3379	19	1:9068
IV. Area L	52	1:4747	15	1:16,456
V. Raleigh	171	1:2329	95	1:4192
VI. Fayetteville	116	1:4824	45	1:12,434
VII. Greensboro	198	1:2792	122	1:4530
VIII. Northwest	301	1:3053	116	1:7921
IX. East	165	1:4158	86	1:7977
X. Other	238	1:1655	103	1:3823

TABLE 7: Distribution of Registered Nurses and Licensed Practical Nurses by County, 1974.

COUNTY NAME	RN'S		LPN'S	
	NUMBER	RN/POP	NUMBER	LPN/POP
Alamance	233	1:413	173	1:557
Alexander	18	1:1081	15	1:1297
Alleghany	17	1:478	17	1:478
Anson	42	1:559	30	1:782
Ashe	17	1:1151	12	1:1630
Avery	36	1:351	51	1:248
Beaufort	87	1:413	124	1:290
Bertie	23	1:892	14	1:1466
Bladen	36	1:735	9	1:2941
Brunswick	28	1:865	20	1:1211
Buncombe	667	1:217	393	1:369
Burke	295	1:204	48	1:1257
Cabarrus	252	1:296	108	1:691
Caldwell	72	1:787	72	1:787
Camden	3	1:1817	5	1:1090
Carteret	98	1:322	77	1:410
Caswell	7	1:2722	4	1:4763
Catawba	239	1:380	134	1:678
Chatham	50	1:591	23	1:1284
Cherokee	29	1:563	23	1:710
Chowan	25	1:430	29	1:371
Clay	5	1:1036	3	1:1726
Cleveland	253	1:286	165	1:439
Columbus	111	1:422	19	1:2470
Craven	123	1:508	128	1:488

TABLE 7, cont'd

COUNTY NAME	RN'S		LPN'S	
	NUMBER	RN/POP	NUMBER	LPN/POP
Cumberland	512	1:414	184	1:1152
Currituck	1	1:6976	4	1:1744
Dare	3	1:2331	1	1:6995
Davidson	209	1:457	83	1:1152
Davie	33	1:571	35	1:538
Duplin	55	1:691	58	1:655
Durham	1148	1:115	955	1:138
Edgecombe	69	1:758	57	1:918
Forsyth	1303	1:164	611	1:350
Franklin	34	1:788	23	1:1166
Gaston	274	1:541	127	1:1168
Gates	4	1:2131	2	1:4262
Graham	3	1:2187	0	-
Granville	108	1:303	70	1:468
Greene	6	1:2494	2	1:7483
Guilford	1228	1:235	368	1:784
Halifax	114	1:472	91	1:592
Harnett	89	1:558	68	1:730
Haywood	95	1:439	138	1:302
Henderson	172	1:248	63	1:679
Hertford	67	1:351	36	1:653
Hoke	41	1:400	29	1:566
Hyde	3	1:1857	0	-
Iredell	323	1:223	67	1:1077
Jackson	55	1:392	29	1:744

TABLE 7, cont'd

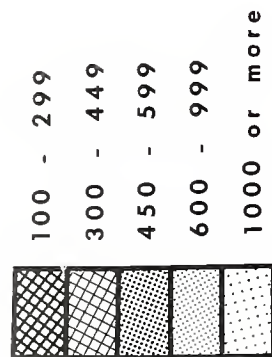
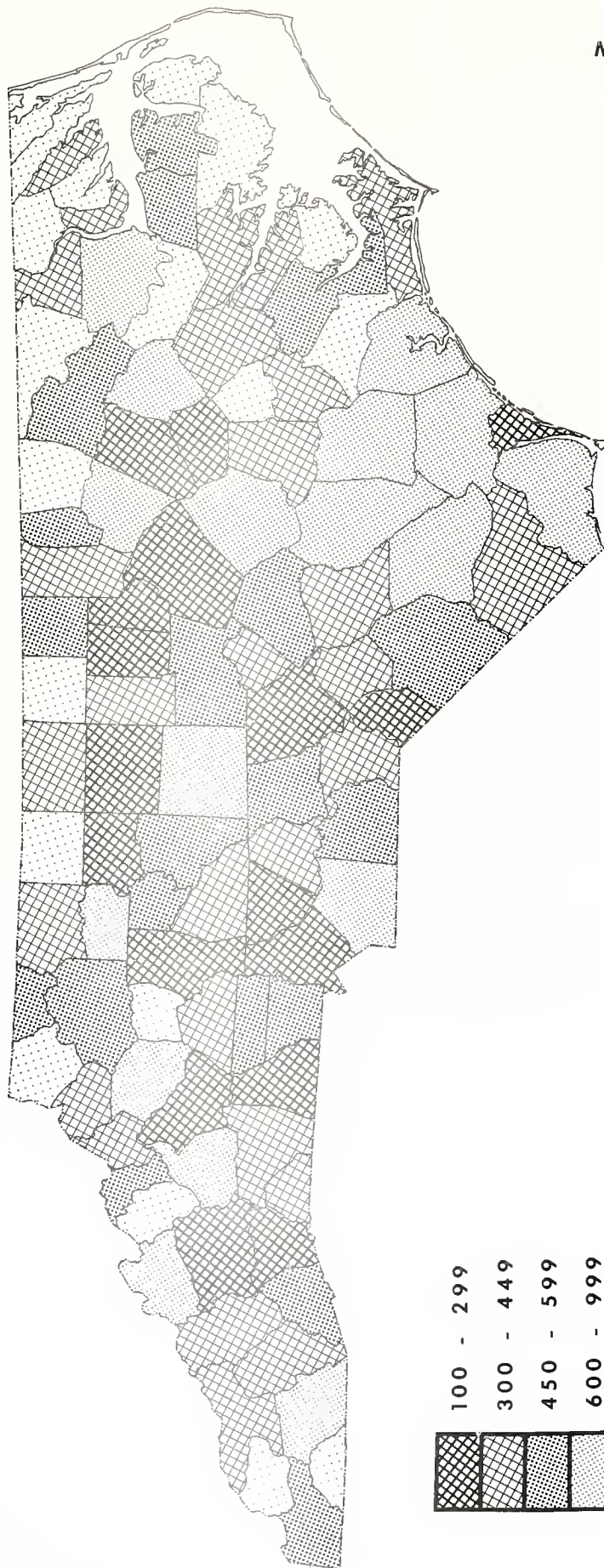
COUNTY NAME	RN'S		LPN'S	
	NUMBER	RN/POP	NUMBER	LPN/POP
Johnston	92	1:671	72	1:857
Jones	2	1:4889	0	-
Lee	90	1:338	101	1:301
Lenoir	183	1:301	97	1:569
Lincoln	63	1:518	43	1:760
McDowell	35	1:875	21	1:1459
Macon	23	1:686	14	1:1127
Madison	25	1:640	13	1:1231
Martin	13	1:1902	1	1:24,730
Mecklenburg	1888	1:187	560	1:633
Mitchell	29	1:463	20	1:672
Montgomery	40	1:481	26	1:741
Moore	207	1:188	81	1:482
Nash	218	1:271	87	1:679
New Hanover	462	1:179	155	1:535
Northampton	17	1:1412	9	1:2667
Onslow	119	1:866	91	1:1133
Orange	511	1:112	172	1:335
Pamlico	3	1:3155	1	1:9467
Pasquotank	63	1:425	118	1:227
Pender	30	1:604	15	1:1209
Perquimans	2	1:4175	7	1:1193
Person	49	1:528	39	1:664
Pitt	212	1:348	110	1:671
Polk	32	1:366	20	1:586

TABLE 7, cont'd

COUNTY NAME	RN'S		LPN'S	
	NUMBER	RN/POP	NUMBER	LPN/POP
Randolph	97	1:787	90	1:848
Richmond	105	1:379	33	1:1208
Robeson	169	1:502	77	1:1101
Rockingham	212	1:341	47	1:1540
Rowan	269	1:334	123	1:731
Rutherford	115	1:411	28	1:1690
Sampson	74	1:607	52	1:864
Scotland	98	1:274	70	1:384
Stanly	98	1:436	61	1:702
Stokes	17	1:1398	6	1:3963
Surry	158	1:325	41	1:1254
Swain	25	1:314	17	1:462
Transylvania	39	1:505	10	1:1971
Tyrrell	7	1:543	1	1:3806
Union	83	1:659	59	1:927
Vance	58	1:563	51	1:641
Wake	1076	1:212	374	1:610
Warren	11	1:1437	7	1:2258
Washington	25	1:561	9	1:1559
Watauga	73	1:320	54	1:433
Wayne	280	1:305	297	1:287
Wilkes	86	1:575	49	1:1010
Wilson	237	1:242	142	1:404
Yadkin	34	1:723	30	1:819
Yancey	7	1:1804	6	1:2104
TOTALS	16,576	1:307	8,404	1:605

Population Per Registered Nurse By County, 1974

Map 5





Population Per Licensed Practical Nurse By County, 1974

Map 6

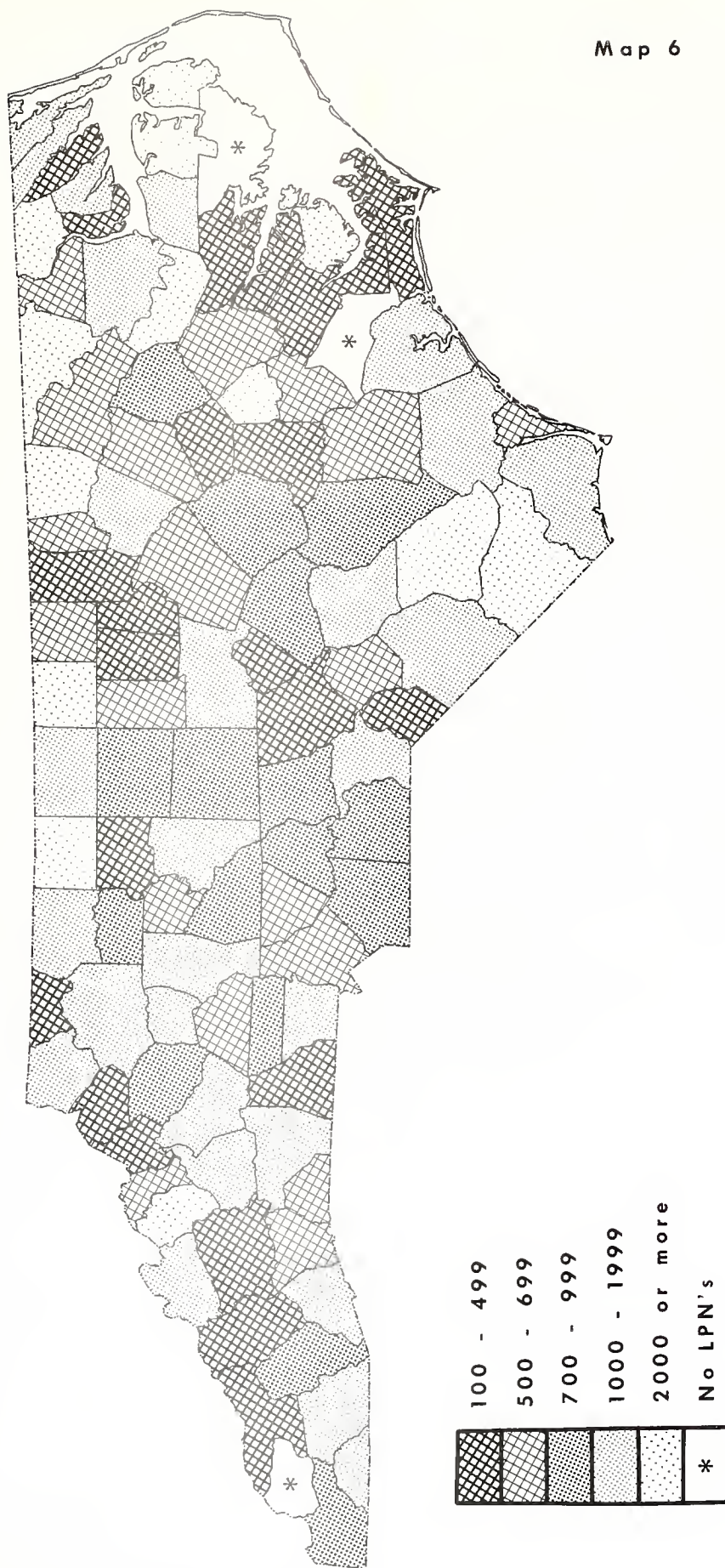




TABLE 8: Distribution of Registered Nurses and Licensed Practical Nurses by AHEC Area, 1974.

AHEC AREA	RN'S		LPN'S	
	NUMBER	RN/POP	NUMBER	LPN/POP
I. Asheville	1277	1:328	821	1:511
II. Charlotte	2718	1:269	1012	1:725
III. Wilmington	631	1:273	209	1:824
IV. Area L	655	1:376	386	1:639
V. Raleigh	1379	1:288	597	1:667
VI. Fayetteville	1371	1:408	629	1:889
VII. Greensboro	1777	1:311	682	1:810
VIII. Northwest	3163	1:290	1397	1:657
IX. East	1407	1:487	1212	1:566
X. Other	2198	1:179	1459	1:269

TABLE 9: Distribution of Pharmacists by County, 1974.

COUNTY NAME	PHARMACISTS	
	NUMBER	PHARMACIST/POP
Alamance	52	1:1853
Alexander	10	1:1946
Alleghany	4	1:2033
Anson	8	1:2936
Ashe	8	1:2446
Avery	7	1:1807
Beaufort	18	1:1998
Bertie	6	1:3421
Bladen	10	1:2647
Brunswick	9	1:2691
Buncombe	89	1:1629
Burke	31	1:1947
Cabarrus	45	1:1658
Caldwell	20	1:2834
Camden	0	-
Carteret	20	1:1580
Caswell	2	1:9527
Catawba	61	1:1489
Chatham	17	1:1738
Cherokee	5	1:3266
Chowan	6	1:1794
Clay	3	1:1726
Cleveland	33	1:2198
Columbus	22	1:2133
Craven	19	1:3292

TABLE 9, cont'd

COUNTY NAME	PHARMACISTS	
	NUMBER	PHARMACIST/POP
Cumberland	60	1:3534
Currituck	1	1:6976
Dare	3	1:2331
Davidson	43	1:2223
Davie	11	1:1714
Duplin	17	1:2236
Durham	108	1:1228
Edgecombe	46	1:1137
Forsyth	143	1:1498
Franklin	13	1:2063
Gaston	68	1:2182
Gates	0	-
Graham	2	1:3281
Granville	19	1:1724
Greene	2	1:7483
Guilford	170	1:1697
Halifax	25	1:2155
Harnett	23	1:2159
Haywood	28	1:1489
Henderson	34	1:1258
Hertford	13	1:1809
Hoke	4	1:4109
Hyde	0	-
Iredell	36	1:2005
Jackson	6	1:3598

TABLE 9, cont'd

COUNTY NAME	PHARMACISTS	
	NUMBER	PHARMACIST/POP
Johnston	31	1:1991
Jones	3	1:3259
Lee	18	1:1692
Lenoir	25	1:2208
Lincoln	19	1:1720
McDowell	15	1:2043
Macon	11	1:1435
Madison	7	1:2286
Martin	11	1:2248
Mecklenburg	171	1:2074
Mitchell	6	1:2241
Montgomery	10	1:1926
Moore	25	1:1561
Nash	4	1:14,780
New Hanover	50	1:1659
Northampton	4	1:6002
Onslow	22	1:4687
Orange	94	1:613
Pamlico	3	1:3155
Pasquotank	14	1:1916
Pender	5	1:3629
Perquimans	1	1:8351
Person	10	1:2591
Pitt	40	1:1847
Polk	7	1:1676

TABLE 9, cont'd

COUNTY NAME	PHARMACISTS	
	NUMBER	PHARMACISTS/POP
Randolph	28	1:2727
Richmond	14	1:2849
Robeson	37	1:2293
Rockingham	37	1:1956
Rowan	42	1:2143
Rutherford	21	1:2254
Sampson	20	1:2247
Scotland	13	1:2071
Stanly	23	1:1861
Stokes	6	1:3963
Surry	32	1:1606
Swain	3	1:2620
Transylvania	8	1:2464
Tyrrell	1	1:3806
Union	19	1:2879
Vance	17	1:1923
Wake	164	1:1393
Warren	3	1:5270
Washington	4	1:3509
Watauga	15	1:1560
Wayne	36	1:2372
Wilkes	16	1:3095
Wilson	31	1:1854
Yadkin	11	1:2236
Yancey	3	1:4209
TOTALS	2590	1:1962

Population Per Pharmacist By County, 1974

Map 7

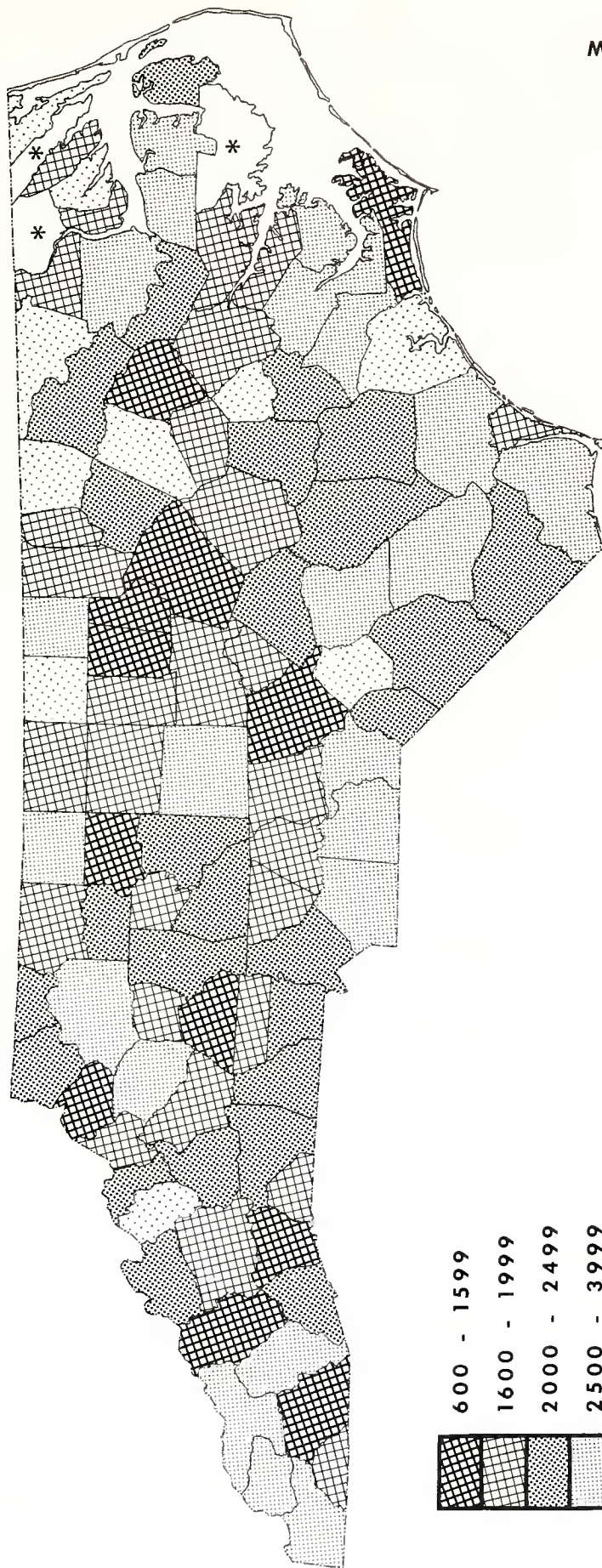


TABLE 10: Distribution of Pharmacists by AHEC Area, 1974.

AHEC AREA	PHARMACISTS	
	NUMBER	PHARMACIST/POP
I. Asheville	234	1:1793
II. Charlotte	339	1:2164
III. Wilmington	86	1:2003
IV. Area L	110	1:2244
V. Raleigh	247	1:1612
VI. Fayetteville	216	1:2590
VII. Greensboro	289	1:1912
VIII. Northwest	489	1:1879
IX. East	265	1:2589
X. Other	315	1:1250

TABLE 11: Distribution of Optometrists and Opticians
by County, 1974.

COUNTY NAME	OPTOMETRISTS		OPTICIANS	
	NUMBER	DO/POP	NUMBER	OPT/POP
Alamance	10	1:9636	3	1:32,120
Alexander	3	1:6488	0	-
Alleghany	0	-	0	-
Anson	2	1:11,744	0	-
Ashe	1	1:19,571	0	-
Avery	0	-	0	-
Beaufort	3	1:11,993	3	1:11,993
Bertie	1	1:20,528	0	-
Bladen	1	1:26,477	2	1:13,238
Brunswick	1	1:24,223	2	1:12,111
Buncombe	9	1:16,117	5	1:29,011
Burke	5	1:12,072	0	-
Cabarrus	9	1:8292	5	1:14,925
Caldwell	3	1:18,899	0	-
Camden	0	-	0	-
Carteret	2	1:15,801	0	-
Caswell	0	-	0	-
Catawba	11	1:8261	7	1:12,981
Chatham	3	1:9851	1	1:29,554
Cherokee	2	1:8165	0	-
Chowan	2	1:5382	0	-
Clay	0	-	0	-
Cleveland	7	1:10,365	1	1:72,556
Columbus	3	1:15,645	2	1:23,468
Craven	3	1:20,851	1	1:62,554

TABLE 11, cont'd

COUNTY NAME	OPTOMETRISTS		OPTICIANS	
	NUMBER	DO/POP	NUMBER	OPT/POP
Cumberland	7	1:30,291	19	1:11,160
Currituck	0	-	0	-
Dare	1	1:6995	0	-
Davidson	8	1:11,953	3	1:31,875
Davie	1	1:18,855	1	1:18,855
Duplin	2	1:19,007	0	-
Durham	9	1:14,742	15	1:8845
Edgecombe	9	1:5815	0	-
Forsyth	21	1:10,207	22	1:9743
Franklin	2	1:13,410	2	1:13,410
Gaston	13	1:11,416	4	1:37,103
Gates	0	-	0	-
Graham	0	-	0	-
Granville	2	1:16,381	0	-
Greene	0	-	0	-
Guilford	23	1:12,547	26	1:11,099
Halifax	3	1:17,961	0	-
Harnett	3	1:16,555	1	1:49,667
Haywood	5	1:8342	0	-
Henderson	4	1:10,701	3	1:14,268
Hertford	3	1:7843	1	1:23,529
Hoke	0	-	0	-
Hyde	0	-	0	-
Iredell	5	1:14,439	3	1:24,065
Jackson	1	1:21,593	0	-

TABLE 11, cont'd

COUNTY NAME	OPTOMETRISTS		OPTICIANS	
	NUMBER	DO/POP	NUMBER	OPT/POP
Johnston	4	1:15,434	1	1:61,737
Jones	0	-	0	-
Lee	5	1:6093	1	1:30,467
Lenoir	5	1:11,040	1	1:55,204
Lincoln	2	1:16,341	0	-
McDowell	3	1:10,216	0	-
Macon	1	1:15,788	0	-
Madison	0	-	0	-
Martin	2	1:12,365	0	-
Mecklenburg	23	1:15,419	34	1:10,431
Mitchell	1	1:13,447	0	-
Montgomery	1	1:19,267	0	-
Moore	0	-	3	1:13,016
Nash	0	-	6	1:9853
New Hanover	5	1:16,599	18	1:4610
Northampton	0	-	0	-
Onslow	3	1:34,375	2	1:51,563
Orange	4	1:14,426	7	1:8243
Pamlico	0	-	0	-
Pasquotank	4	1:6706	0	-
Pender	0	-	1	1:18,149
Perquimans	0	-	0	-
Person	2	1:12,957	0	-
Pitt	4	1:18,475	4	1:18,475
Polk	0	-	0	-

TABLE 11, cont'd

COUNTY NAME	OPTOMETRISTS		OPTICIANS	
	NUMBER	DO/POP	NUMBER	OPT/POP
Randolph	3	1:25,452	0	-
Richmond	2	1:19,944	0	-
Robeson	8	1:10,605	1	1:84,842
Rockingham	3	1:24,134	0	-
Rowan	9	1:10,003	1	1:90,035
Rutherford	4	1:11,834	0	-
Sampson	2	1:22,477	1	1:44,954
Scotland	1	1:26,929	0	-
Stanly	2	1:21,411	0	-
Stokes	0	-	1	1:23,782
Surry	5	1:10,283	3	1:17,138
Swain	0	-	1	1:7861
Transylvania	3	1:6571	0	-
Tyrrell	0	-	0	-
Union	4	1:13,678	0	-
Vance	4	1:8172	0	-
Wake	15	1:15,230	36	1:6345
Warren	0	-	0	-
Washington	1	1:14,038	0	-
Watauga	3	1:7801	2	1:11,702
Wayne	9	1:9489	2	1:42,704
Wilkes	6	1:8254	0	-
Wilson	6	1:9581	2	1:28,743
Yadkin	1	1:24,599	0	-
Yancey	0	-	0	-
TOTALS	363	1:14,000	260	1:19,546

TABLE 12: Distribution of Optometrists and Opticians
by AHEC Area, 1974.

AHEC AREA	OPTOMETRISTS		OPTICIANS	
	NUMBER	DO/POP	NUMBER	OPT/POP
I. Asheville	29	1:14,472	9	1:46,634
II. Charlotte	55	1:13,342	39	1:18,816
III. Wilmington	9	1:19,145	23	1:7491
IV. Area L	18	1:13,713	8	1:30,855
V. Raleigh	27	1:14,750	39	1:10,212
VI. Fayetteville	25	1:22,382	27	1:20,724
VII. Greensboro	39	1:14,173	29	1:19,060
VIII. Northwest	82	1:11,206	43	1:21,369
IX. East	45	1:15,246	14	1:49,006
X. Other	34	1:11,581	29	1:13,578

TABLE 13: Distribution of Physical Therapists and
Physical Therapist Assistants by County, 1974.

COUNTY NAME	PHYSICAL THERAPISTS		P. T. ASSISTANTS	
	NUMBER	PT/POP	NUMBER	PTA/POP
Alamance	4	1:24,090	1	1:96,362
Alexander	1	1:19,466	1	1:19,466
Alleghany	0	-	0	-
Anson	0	-	0	-
Ashe	0	-	0	-
Avery	0	-	0	-
Beaufort	1	1:35,980	0	-
Bertie	0	-	0	-
Bladen	0	-	0	-
Brunswick	1	1:24,223	0	-
Buncombe	24	1:6044	6	1:24,176
Burke	11	1:5487	4	1:15,091
Cabarrus	1	1:74,629	0	-
Caldwell	1	1:56,699	0	-
Camden	0	-	0	-
Carteret	2	1:15,801	0	-
Caswell	0	-	0	-
Catawba	6	1:15,145	1	1:90,873
Chatham	0	-	0	-
Cherokee	0	-	0	-
Chowan	0	-	0	-
Clay	0	-	0	-
Cleveland	2	1:36,278	1	1:72,556
Columbus	1	1:46,937	0	-
Craven	5	1:12,510	1	1:62,554

TABLE 13, cont'd

COUNTY NAME	PHYSICAL THERAPISTS		P. T. ASSISTANTS	
	NUMBER	PT/POP	NUMBER	PTA/POP
Cumberland	11	1:19,276	0	-
Currituck	0	-	0	-
Dare	0	-	0	-
Davidson	0	-	0	-
Davie	0	-	0	-
Duplin	1	1:38,015	0	-
Durham	53	1:2503	0	1:33,170
Edgecombe	4	1:13,085	4	1:52,341
Forsyth	28	1:7655	1	1:107,174
Franklin	1	1:26,820	2	-
Gaston	8	1:18,551	0	-
Gates	0	-	0	-
Graham	0	-	0	-
Granville	6	1:5460	0	-
Greene	0	-	0	-
Guilford	24	1:12,024	0	-
Halifax	4	1:13,471	0	-
Harnett	0	-	0	-
Haywood	2	1:20,855	0	-
Henderson	4	1:10,701	3	1:14,268
Hertford	2	1:11,764	0	-
Hoke	1	1:16,436	0	-
Hyde	0	-	0	-
Iredell	3	1:24,065	1	1:72,197
Jackson	3	1:7197	0	-

TABLE 13, cont'd

COUNTY NAME	PHYSICAL THERAPISTS		P.T. ASSISTANTS	
	NUMBER	PT/POP	NUMBER	PTA/POP
Johnston	1	1:61,737	0	-
Jones	0	-	0	-
Lee	2	1:15,233	0	-
Lenoir	2	1:27,602	1	1:55,204
Lincoln	1	1:32,682	0	-
McDowell	2	1:15,324	0	-
Macon	1	1:15,788	0	-
Madison	0	-	0	-
Martin	0	-	0	-
Mecklenburg	47	1:7545	26	1:13,640
Mitchell	1	1:13,447	0	-
Montgomery	0	-	0	-
Moore	4	1:9762	1	1:39,048
Nash	0	-	0	-
New Hanover	10	1:8299	6	1:13,832
Northampton	0	-	0	-
Onslow	3	1:34,375	0	-
Orange	50	1:1154	3	1:19,235
Pamlico	0	-	0	-
Pasquotank	0	-	0	-
Pender	0	-	0	-
Perquimans	0	-	0	-
Person	0	-	0	-
Pitt	8	1:9237	0	-
Polk	1	1:11,735	0	-

TABLE 13, cont'd

COUNTY NAME	PHYSICAL THERAPISTS		P.T. ASSISTANTS	
	NUMBER	PT/POP	NUMBER	PTA/POP
Randolph	3	1:25,452	0	-
Richmond	1	1:39,889	0	-
Robeson	2	1:42,421	0	-
Rockingham	2	1:36,201	0	-
Rowan	2	1:45,017	4	1:22,508
Rutherford	1	1:47,337	0	-
Sampson	2	1:22,477	0	-
Scotland	1	1:26,929	0	-
Stanly	1	1:42,822	0	-
Stokes	0	-	0	-
Surry	3	1:17,138	0	-
Swain	0	-	0	-
Transylvania	0	-	0	-
Tyrrell	0	-	0	-
Union	0	-	0	-
Vance	1	1:32,691	0	-
Wake	40	1:5711	12	1:19,037
Warren	0	-	0	-
Washington	1	1:14,038	0	-
Watauga	1	1:23,404	0	-
Wayne	2	1:42,704	0	-
Wilkes	1	1:49,524	0	-
Wilson	3	1:19,162	1	1:57,486
Yadkin	0	-	0	-
Yancey	0	-	0	-
TOTALS	415	1:12,246	80	1:63,526

TABLE 14: Distribution of Physical Therapists and Physical
Therapist Assistants by AHEC Area, 1974.

AHEC AREA	PHYSICAL THERAPIST		P.T. ASSISTANTS	
	NUMBER	PT/POP	NUMBER	PTA/POP
I. Asheville	38	1:11,045	9	1:46,634
II. Charlotte	59	1:12,438	27	1:27,179
III. Wilmington	12	1:14,358	6	1:28,717
IV. Area L	11	1:22,440	2	1:123,421
V. Raleigh	49	1:8128	12	1:33,189
VI. Fayetteville	22	1:25,434	1	1:559,551
VII. Greensboro	33	1:16,750	1	1:552,767
VIII. Northwest	57	1:16,120	13	1:70,684
IX. East	27	1:25,410	2	1:343,046
X. Other	107	1:3680	7	1:56,253

II. HEALTH FACILITIES

TABLE 15: Distribution of Selected Health Facilities by County, 1973:

COUNTY NAME	NUMBER OF GENERAL HOSPITALS	NUMBER OF GENERAL HOSPITAL BEDS	NUMBER OF GENERAL HOSPITAL BEDS PER 1,000 POP.	HOSPITAL OCCUPANCY RATE	NUMBER OF NURSING HOMES
Alamance	2	247	2.6	68.4	0
Alexander	1	31	1.6	90.3	0
Alleghany	1	47	5.8	78.7	1
Anson	1	93	4.0	80.6	1
Ashe	1	76	3.9	68.1	0
Avery	2	100	7.9	72.0	0
Beaufort	2	181	5.0	80.7	1
Bertie	1	50	2.4	76.0	0
Bladen	1	60	2.3	75.0	0
Brunswick	1	44	1.8	68.2	0
Buncombe	3	642	4.4	86.6	8
Burke	2	283	4.7	84.1	2
Cabarrus	1	331	4.4	92.8	2
Caldwell	2	165	2.9	80.0	0
Camden	0	0	-	-	0
Carteret	2	170	5.4	72.4	1
Caswell	0	0	-	-	0
Catawba	3	407	4.5	74.4	3
Chatham	1	76	2.6	47.4	0
Cherokee	2	87	5.3	74.7	0

TABLE 15, cont'd

COUNTY NAME	NUMBER OF GENERAL HOSPITALS	NUMBER OF GENERAL HOSPITAL BEDS	NUMBER OF GENERAL HOSPITAL BEDS PER 1,000 POP.	HOSPITAL OCCUPANCY RATE	NUMBER OF NURSING HOME
Chowan	1	117	10.9	75.9	0
Clay	0	0	-	-	0
Cleveland	3	440	6.1	77.5	4
Columbus	1	142	3.0	78.2	1
Craven	1	161	2.6	95.0	2
Cumberland	2	456	2.2	82.2	6
Currituck	0	0	-	-	0
Dare	0	0	-	-	0
Davidson	2	249	2.6	Not Avail.	4
Davie	1	62	3.3	71.0	1
Duplin	1	80	2.1	60.0	0
Durham	3	1,198	9.0	82.1	6
Edgecombe	1	108	2.1	72.2	1
Forsyth	4	1,409	6.6	79.1	11
Franklin	1	80	3.0	81.3	0
Gaston	2	273	1.8	86.4	3
Gates	0	0	-	-	0
Graham	0	0	-	-	0
Granville	1	75	2.3	Not Avail.	0
Greene	0	0	-	-	0

TABLE 15, cont'd

COUNTY NAME	NUMBER OF GENERAL HOSPITALS	NUMBER OF GENERAL HOSPITAL BEDS	NUMBER OF GENERAL HOSPITAL BEDS PER 1,000 POP.	HOSPITAL OCCUPANCY RATE	NUMBER OF NURSING HOME
Guilford	4	1,115	3.9	84.1	9
Halifax	2	172	3.2	Not Avail.	2
Harnett	2	172	3.5	70.9	2
Haywood	1	161	3.9	82.6	2
Henderson	3	303	7.1	73.3	0
Hertford	1	124	5.3	83.9	1
Hoke	0	0	-	-	1
Hyde	0	0	-	-	0
Iredell	3	383	5.3	70.0	1
Jackson	1	80	3.7	63.8	0
Johnston	1	160	2.6	63.8	0
Jones	0	0	-	-	0
Lee	1	142	4.7	74.6	2
Lenoir	1	123	2.2	96.7	1
Lincoln	2	200	6.1	63.5	0
McDowell	1	52	1.7	65.4	1
Macon	2	78	4.9	55.1	0
Madison	0	0	-	-	0
Martin	2	61	2.5	Not Avail.	0
Mecklenburg	3	1,586	4.5	84.9	9
					44

TABLE 15, cont'd

COUNTY NAME	NUMBER OF GENERAL HOSPITALS	NUMBER OF GENERAL HOSPITAL BEDS	NUMBER OF GENERAL HOSPITAL BEDS PER 1,000 POP.	HOSPITAL OCCUPANCY RATE	NUMBER OF NURSING HOME
Mitchell	1	50	3.7	82.0	0
Montgomery	1	83	4.3	61.4	1
Moore	2	332*	8.5	71.4	2
Nash	2	255	4.3	81.5	2
New Hanover	2	489	5.9	83.0	4
Northampton	0	0	-	-	1
Onslow	1	92	0.9*	79.3	1
Orange	1	454	7.9	84.1	3
Pamlico	0	0	-	-	0
Pasquotank	1	152	5.7	96.1	1
Pender	1	47	2.6	68.1	1
Perquimans	0	0	-	-	0
Person	1	90	3.5	54.4	0
Pitt	1	205	2.8	85.4	2
Polk	1	75	6.4	85.2	1
Randolph	1	129	1.7	82.9	2
Richmond	2	192	4.8	55.7	0
Robeson	1	302	3.6	81.5	0
Rockingham	2	277	3.8	81.6	2
Rowan	1	337	3.7	75.7	2

*50 Beds are
long-term*This figure affect-
ed by Camp Lejeune pop.

TABLE 15, cont'd

COUNTY NAME	NUMBER OF GENERAL HOSPITALS	NUMBER OF GENERAL HOSPITAL BEDS	NUMBER OF GENERAL HOSPITAL BEDS PER 1,000 POP.	HOSPITAL OCCUPANCY RATE	NUMBER OF NURSING HOME
Rutherford	1	135	2.9	92.4	2
Sampson	1	180	4.0	64.4	1
Scotland	1	170	6.3	69.4	0
Stanly	1	129	3.0	76.7	1
Stokes	1	28	1.2	50.0	1
Surry	2	160	3.1	84.4	0
Swain	1	51	6.5	66.7	0
Transylvania	1	39	2.0	53.8	0
Tyrell	0	0	-	-	0
Union	1	195	3.6	83.1	1
Vance	1	100	3.1	71.0	2
Wake	4	844	3.7	84.6	5
Warren	1	37	2.3	70.3	0
Washington	1	36	2.6	55.6	0
Watauga	2	183	7.8	65.6	0
Wayne	1	284	3.3	72.5	2
Wilkes	1	140	2.8	57.9	0
Wilson	1	334	5.8	83.3	2
Yadkin	1	70	2.8	61.4	0
Yancey	1	33	2.6	42.4	0
TOTALS	129	19,561	3.8	78.6	131
					46

General Hospital Beds Per 1000 Population By County, 1973

Map 8

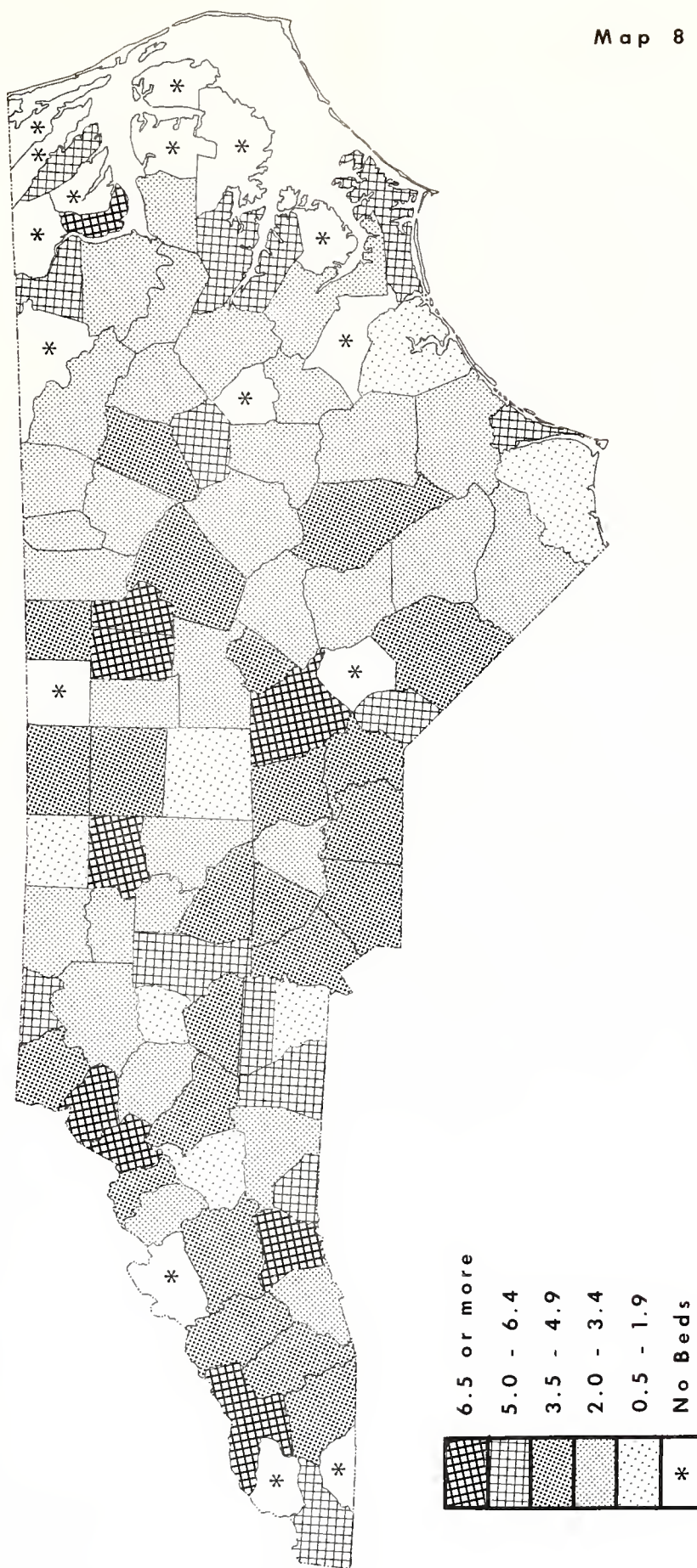


TABLE 16: Distribution of Selected Health Facilities by AHEC Area, 1973.

AHEC AREA	NUMBER OF GENERAL HOSPITALS	NUMBER OF GENERAL HOSPITAL BEDS	NUMBER OF GENERAL HOSPITAL BEDS PER 1,000 POP.	HOSPITAL OCCUPANCY RATE	NUMBER OF NURSING HOMES
I. Asheville	20	1751	4.2	76.4	12
II. Charlotte	13	2922	4.0	82.0	20
III. Wilmington	5	722	4.2	80.2	6
IV. Area L.	6	869	3.5	80.5	8
V. Raleigh	9	1296	3.3	80.1	7
VI. Fayetteville	13	1947	3.5	72.8	13
VII. Greensboro	9	1768	3.2	81.4	13
VIII. Northwest	28	4030	4.4	75.4	26
IX. East	17	1836	2.7	80.1	12
X. Other	9	2420	6.1	81.2	14

III. POPULATION CHARACTERISTICS

TABLE 17: Population Characteristics by County.

COUNTY NAME	POPULATION (1960)	POPULATION (1970)	PERCENT CHANGE (1960-70)	ESTIMATED POPULATION (1980)	PERCENT CHANGE (1970-80)	PERCENT RURAL POPULATION	PER CAPITA INCOME	PERCENT NON-WHITE	INFANT MORTALITY (1973)
Alamance	85,674	96,362	12.5%	111,645	15.9%	47.6%	\$3,865	17.9%	31.1
Alexander	15,625	19,466	24.6	24,064	23.6	100.0	2,878	7.8	18.3
Alleghany	7,734	8,134	5.2	9,317	14.5	100.0	2,282	3.0	32.8
Anson	24,962	23,488	-5.9	23,988	2.1	83.1	2,491	46.6	32.7
Ashe	19,768	19,571	-1.0	19,256	-1.6	100.0	2,456	1.1	10.7
Avery	12,009	12,655	5.4	15,964	26.1	100.0	2,293	0.8	12.9
Beaufort	36,014	35,980	-0.1	35,629	-1.0	75.1	2,861	33.3	21.8
Bertie	24,350	20,528	-15.7	22,622	10.2	100.0	2,264	56.6	18.5
Bladen	28,881	26,477	-8.3	27,912	5.4	100.0	2,186	39.5	37.6
Brunswick	20,278	24,223	19.5	38,789	60.1	100.0	2,187	30.7	23.3
Buncombe	124,403	145,056	11.5	153,252	5.6	47.8	3,329	9.1	23.5
Burke	52,701	60,364	14.5	68,082	12.8	71.5	3,346	7.3	15.4
Cabarrus	68,137	74,629	9.5	83,389	11.7	36.0	3,636	16.1	23.8
Caldwell	49,552	56,699	14.4	64,712	14.1	69.1	3,328	6.4	25.2
Camden	5,598	5,453	-2.6	6,106	12.0	100.0	2,027	37.2	0.0
Carteret	30,940	31,603	15.2	36,029	14.0	72.8	2,684	11.5	19.1
Caswell	19,912	19,055	-4.3	19,259	1.1	100.0	2,132	48.1	24.5
Catawba	73,191	90,873	24.2	106,105	16.8	57.1	3,848	8.9	21.1
Chatham	26,785	29,554	10.3	30,204	2.2	84.1	2,815	30.5	21.1
Cherokee	16,335	16,330	0.0	18,419	12.8	100.0	2,433	0.4	23.2

TABLE 17, cont'd

COUNTY NAME	POPULATION (1960)	POPULATION (1970)	PERCENT CHANGE (1960-70)	ESTIMATED POPULATION (1980)	PERCENT CHANGE (1970-80)	PERCENT RURAL POPULATION	PER CAPITA INCOME	PERCENT NON-WHITE	INFANT MORTALITY (1973)
Chowan	11,729	10,764	-8.2%	11,370	5.6%	55.7%	\$2,685	42.1%	0.0
Clay	5,526	5,180	-6.3	5,711	10.3	100.0	2,224	0.9	22.0
Cleveland	66,048	72,556	9.9	80,748	11.3	66.0	3,318	20.6	34.8
Columbus	48,973	46,937	-4.2	52,548	12.0	91.1	2,403	31.8	29.9
Craven	58,773	62,554	6.4	69,872	11.7	44.8	2,988	26.1	19.7
Cumberland	148,418	212,042	42.9	223,412	5.4	23.9	3,084	26.5	18.3
Currituck	6,601	6,976	5.7	11,085	58.9	100.0	2,649	26.5	16.1
Dare	5,935	6,995	17.9	9,680	38.4	100.0	2,368	7.3	25.0
Davidson	79,493	95,627	20.3	107,950	12.9	62.9	3,434	10.0	16.8
Davie	16,728	18,855	12.7	20,834	10.5	86.6	3,180	11.9	23.3
Duplin	40,270	38,015	-5.6	38,837	1.9	85.1	2,705	34.3	25.2
Durham	111,995	132,681	18.5	143,434	8.1	24.1	3,544	32.9	15.8
Edgecombe	54,226	52,341	-3.5	55,710	6.4	52.9	2,741	47.6	24.2
Forsyth	189,428	214,348	13.6	241,253	12.6	31.2	4,124	22.5	20.1
Franklin	28,755	26,820	-6.7	30,732	14.6	89.0	2,236	41.8	24.6
Gaston	127,074	148,415	16.8	161,243	8.6	39.7	3,449	12.3	20.6
Gates	9,254	8,524	-7.9	8,418	-1.2	100.0	2,096	53.4	0.0
Graham	6,432	6,562	2.0	4,963	-24.4	100.0	2,041	4.9	21.7
Granville	33,110	32,762	-1.1	33,816	3.2	67.3	2,298	43.9	35.0
Greene	16,741	14,967	-10.6	15,112	1.0	100.0	2,426	47.0	56.3

TABLE 17, cont'd

COUNTY NAME	POPULATION (1960)	POPULATION (1970)	PERCENT CHANGE (1960-70)	ESTIMATED POPULATION (1980)	PERCENT CHANGE (1970-80)	PERCENT RURAL POPULATION	PER CAPITA INCOME	PERCENT NON-WHITE	INFANT MORTALITY (1973)
Guilford	246,520	288,590	17.1%	322,413	11.7%	23.7%	\$4,123	22.5%	25.2
Halifax	58,956	53,884	- 8.6	53,505	- 0.7	63.5	2,511	49.4	36.7
Harnett	48,236	49,667	3.0	56,924	14.6	77.5	2,373	25.1	20.4
Haywood	39,711	41,710	5.0	46,999	12.7	72.1	3,145	2.0	19.0
Henderson	36,163	42,804	18.4	48,123	12.4	72.0	3,207	4.7	12.2
Hertford	22,718	23,529	3.6	22,511	- 4.3	63.4	2,259	55.4	23.3
Hoke	16,356	16,436	0.5	19,394	18.0	80.7	2,097	54.9	15.5
Hyde	5,765	5,571	- 3.4	4,808	-13.7	100.0	1,668	41.3	66.7
Iredell	62,526	72,197	15.5	86,879	20.3	55.8	3,478	17.2	20.4
Jackson	17,780	21,593	21.4	24,294	12.5	100.0	2,001	10.6	28.5
Johnston	62,936	61,737	- 1.9	67,350	9.1	77.1	2,699	21.3	20.1
Jones	11,005	9,779	-11.1	9,430	- 3.6	100.0	2,219	45.1	27.0
Lee	26,561	30,467	14.7	36,390	19.4	61.5	3,290	23.1	30.4
Lenoir	55,276	55,204	- 0.1	62,746	13.7	55.0	2,818	37.0	20.5
Lincoln	28,814	32,682	13.4	41,206	26.1	83.8	3,222	10.3	26.3
McDowell	26,742	30,648	14.6	32,656	6.6	69.4	2,690	5.3	17.7
Macon	14,935	15,788	5.7	20,730	31.3	100.0	2,191	2.5	37.7
Madison	17,217	16,003	- 7.1	15,543	- 2.9	100.0	1,930	0.7	28.2
Martin	27,139	24,730	- 8.9	23,260	- 5.9	73.4	2,387	44.9	9.1
Mecklenburg	272,111	354,656	30.3	385,075	8.6	20.4	4,144	24.1	19.3

TABLE 17, cont'd

COUNTY NAME	POPULATION (1960)	POPULATION (1970)	PERCENT CHANGE (1960-70)	ESTIMATED POPULATION (1980)	PERCENT CHANGE (1970-80)	PERCENT RURAL POPULATION	PER CAPITA INCOME	PERCENT NON-WHITE	INFANT MORTALITY (1973)
Mitchell	13,906	13,447	-3.3%	13,683	1.8%	100.0%	\$2,765	0.3%	23.0
Montgomery	18,408	19,267	4.7	19,412	0.8	100.0	2,702	24.9	24.5
Moore	36,733	39,048	6.3	47,720	22.2	84.8	3,240	25.1	17.6
Nash	61,002	59,122	-3.1	65,690	11.1	67.8	2,880	35.8	22.2
New Hanover	71,742	82,996	15.7	106,124	27.9	30.5	3,210	22.9	24.8
Northampton	26,811	24,009	-10.5	21,752	-9.4	100.0	2,026	59.1	26.8
Onslow	82,706	103,126	19.6	87,696	-15.0	42.5	2,660	16.1	17.4
Orange	42,970	57,707	34.3	77,228	33.8	49.7	3,076	18.2	20.7
Pamlico	9,850	9,467	- 3.9	9,173	-3.1	100.0	2,217	33.2	16.4
Pasquotank	25,630	26,824	4.7	29,384	9.5	47.6	2,930	38.0	12.8
Pender	18,508	18,149	- 1.9	17,931	-1.2	100.0	2,165	43.9	22.6
Perquimans	9,178	8,351	- 9.0	9,017	8.0	100.0	2,243	41.5	22.2
Person	26,394	25,914	- 1.8	27,628	6.6	79.3	2,783	33.0	30.5
Pitt	69,942	73,900	5.7	78,343	6.0	50.0	2,762	34.8	19.9
Polk	11,395	11,735	3.0	12,913	10.0	100.0	2,969	12.3	54.5
Randolph	61,497	76,358	24.2	87,212	14.2	69.8	3,275	7.4	17.0
Richmond	39,202	39,889	1.8	43,049	7.9	66.6	2,630	29.7	22.3
Robeson	89,102	84,842	- 4.8	94,881	11.8	72.7	2,398	57.3	25.7
Rockingham	69,629	72,402	4.0	82,617	14.1	55.3	3,647	20.6	23.9
Rowan	82,817	90,035	8.7	92,105	2.3	57.9	3,337	16.1	22.5

TABLE 17, cont'd

COUNTY NAME	POPULATION (1960)	POPULATION (1970)	PERCENT CHANGE (1960-70)	ESTIMATED POPULATION (1980)	PERCENT CHANGE (1970-80)	PERCENT RURAL POPULATION	PER CAPITA INCOME	PERCENT NON-WHITE	INFANT MORTALITY (1973)
Rutherford	45,091	47,337	5.0%	55,172	16.6%	69.9%	\$2,931	10.8%	21.5
Sampson	48,013	44,954	-6.4	54,491	22.2	84.1	2,529	36.3	21.1
Scotland	25,183	26,929	6.9	30,801	14.4	67.1	2,558	37.8	29.5
Stanly	40,873	42,822	4.8	47,163	10.1	74.0	3,373	11.0	23.9
Stokes	22,314	23,782	6.6	30,975	30.2	100.0	2,728	9.2	19.7
Surry	48,205	51,415	6.7	59,347	15.4	75.0	3,432	5.0	9.6
Swain	7,465	7,861	5.3	14,259	81.4	100.0	2,468	15.8	19.4
Transylvania	16,372	19,713	20.4	20,099	2.0	73.4	3,093	5.7	15.0
Tyrrell	4,520	3,806	-15.8	4,225	11.0	100.0	1,922	43.4	40.8
Union	44,670	54,714	22.5	68,871	25.9	74.7	2,931	19.1	22.7
Vance	32,002	32,691	2.2	28,732	-12.1	57.5	2,956	42.3	21.4
Wake	169,082	228,453	35.4	286,884	25.6	30.4	3,634	22.6	18.1
Warren	19,652	15,810	-19.6	20,656	30.7	100.0	1,963	62.5	25.1
Washington	13,488	14,038	4.1	12,536	-10.7	66.0	2,578	41.5	8.2
Watauga	17,529	23,404	33.5	27,827	18.9	62.6	2,157	1.1	20.0
Wayne	82,059	85,408	4.1	97,816	14.5	53.3	3,066	33.5	19.5
Wilkes	45,269	49,524	9.4	60,086	21.3	93.2	2,742	5.2	25.5
Wilson	57,716	57,486	-0.4	57,993	0.9	48.9	2,772	36.9	32.4
Yadkin	22,804	24,599	7.9	30,378	23.5	100.0	2,866	5.2	6.1
Yancey	14,008	12,629	-9.8	15,166	20.1	100.0	2,100	1.4	14.8
TOTALS	4,556,155	5,082,059	11.6%	5,668,741	11.6%	55.0%	3,208	23.2	21.7

TABLE 18: Population Characteristics by AHEC Area.

AHEC AREA	POPULATION (1960)	POPULATION (1970)	PERCENT CHANGE (1960-70)	ESTIMATED POPULATION (1980)	PERCENT CHANGE (1970-80)	PERCENT RURAL POPULATION	PER CAPITA INCOME	PERCENT NON-WHITE	INFANT MORTALITY (1973)
I. Asheville	380,399	419,714	10.3%	462,774	10.3%	72.8%	\$2895	6.0%	21.8
II. Charlotte	608,770	733,848	20.6	816,303	11.2	40.9	3659	20.2	22.3
III. Wilmington	159,501	172,305	8.0	215,392	25.0	64.1	2736	28.6	25.6
IV. Area L	258,711	246,842	-4.6	254,650	3.2	62.4	2662	43.8	28.7
V. Raleigh	345,537	398,273	15.3	468,170	17.6	49.6	3163	28.7	20.6
VI. Fayetteville	498,532	559,551	12.2	617,996	10.4	58.2	2741	33.9	21.6
VII. Greensboro	483,232	552,767	14.4	623,146	12.7	41.0	3830	20.0	24.6
VIII. Northwest	805,684	918,893	14.1	1,049,170	14.2	61.5	3466	12.4	19.4
IX. East	664,481	686,092	3.3	715,705	4.3	62.5	2702	32.5	19.4
X. Other	343,715	393,774	14.6	445,436	13.1	46.6	3350	24.2	21.5

IV. SOURCES AND METHODS

SOURCES AND METHODS

I. Health Manpower

Patient Care Physicians: non-federal, active physicians delivering patient care. American Medical Association North Carolina computer file, 12/31/73. Numbers vary slightly from A.M.A. published data due to further editing of that data.

Primary Care Physicians: patient care physicians in general practice, family practice, internal medicine, pediatrics, or obstetrics/gynecology. American Medical Association North Carolina computer file, 12/31/73.

Osteopaths: total osteopaths. North Carolina State Board of Osteopathic Examination and Registration, 1974.

Dentists: total dentists. North Carolina State Board of Dental Examiners computer file, 1974.

Dental Hygienists: total dental hygienists. North Carolina State Board of Dental Examiners computer file, 1974.

RN's: active registered nurses residing in and licensed to practice in North Carolina 1972 - 1974. North Carolina Board of Nursing computer file, 1974.

LPN's: active licensed practical nurses residing in and licensed to practice in North Carolina 1972 - 1974. North Carolina Board of Nursing computer file, 1974.

Pharmacists: total pharmacists. North Carolina Board of Pharmacy computer file, 1974.

Optometrists: total optometrists. North Carolina State Board of Examiners in Optometry computer file, 1974.

Opticians: total opticians. North Carolina State Board of Opticians computer file, 1974.

Physical Therapists and Physical Therapy Assistants: total physical therapists and physical therapist assistants. North Carolina State Examining Committee of Physical Therapy computer file, 1974.

Manpower/Population ratios are based upon 1970 population statistics.

II. Health Facilities

Number of General Hospitals, Number of General Hospital Beds, and Hospital Occupancy Rate from University of North Carolina Area Health Education Centers Program, Inpatient Utilization of General Hospitals in North Carolina, October, 1974. (Federal and long-term hospitals are not included in the data.)

Number of General Hospitals Beds Per 1,000 Population based upon 1970 population statistics, which do include armed forces populations. The ratios for counties with large armed forces populations, then, are biased downward.

Number of Nursing Homes from Southern Regional Council, Health Care in the South: A Statistical Profile, June, 1974.

III. Population Characteristics

1960 Population through Per Capita Income from University of North Carolina Area Health Education Centers Program, Inpatient Utilization of General Hospitals in North Carolina, October, 1974. 1970 population and 1970 - 1980 population change corrected for Johnston County. 1970 - 1980 population change corrected for Rutherford County and North Carolina total. 1960 population and 1960 - 1970 population change corrected for Gates County. Per capita income for AHEC Areas is the mean of appropriate counties, weighted by county populations.

Percent Non-white from Southern Regional Council, Health Care in the South: A Statistical Profile, June, 1974.

Infant Mortality from North Carolina Department of Human Resources, Vital Statistics 1973, volume 1, (April, 1974.) An infant death is defined as the death of a live born infant under one year of age. Infant mortality is resident infant deaths per 1,000 resident live births.

APPENDICES

APPENDIX I

TABLE 19: Detailed Geographic Distribution of Physicians, North Carolina and U.S., 1972

Demographic County Classification	Number of Counties		Resident Population		Non-Federal Patient Care Physicians		Population Per Patient Care Physician	
	U.S.	N.C.	U.S.	N.C.	U.S.	N.C.	U.S.	N.C.
Non-Metropolitan Counties ¹	2,537	81	54,721,700	2,700,800	36,403	1,600	1:1503	1:1688
Metropolitan Counties ²	405	19	69,014,600	2,470,600	86,104	3,400	1:802	1:727
TOTAL ³	2,942	100	123,736,300	5,171,400	122,507	5,000	1:1010	1:1034

¹Non-metropolitan counties with 0 to 50,000 inhabitants.

²Potential Standard Metropolitan Statistical Areas (SMSA) and metropolitan counties with 50,000 to 999,999 inhabitants.

³Metropolitan counties with 1,000,000 or more population (142 counties with 83,750,000 population and 144,080 non-federal patient care physicians) are excluded from this comparison because there are none in North Carolina.

Source: G. A. Roback, Distribution of Physicians in the U.S., 1972, volume 1. Chicago: American Medical Association, 1973. pp. 7, 14, 140-141, 246-251.

APPENDIX I, cont'd

TABLE 20: Detailed Geographic Distribution of Physicians, North Carolina and U.S., 1972¹

Demographic County Classification	Number of Counties		Resident Population		Non-Federal Patient Care Physicians		Population Per Patient Care Physician	
	U.S.	N.C.	U.S.	N.C.	U.S.	N.C.	U.S.	N.C.
Non-Metropolitan, 0 to 9,999 pop.	822	12	4,817,000	85,000	2,019	29	1:2386	1:2931
Non-Metropolitan, 10,000 to 24,999 pop.	981	27	16,042,500	482,300	7,890	215	1:2033	1:2243
Non-metropolitan, 25,000 to 49,999 pop.	505	24	17,471,200	852,000	11,884	524	1:1470	1:1626
Non-metropolitan, 50,000 or more pop.	229	18	16,391,000	1,281,500	14,610	832	1:1122	1:1540
Potential Metropolitan	58	5	5,273,500	377,300	4,760	273	1:1108	1:1382
Metropolitan, 50,000 to 499,999 pop.	257	10	37,936,400	1,472,600	46,173	2,342	1:822	1:629
Metropolitan, 500,000 to 999,999 pop.	90	4	25,804,700	620,700	35,171	785	1:733	1:791
TOTAL	2,942	100	123,736,300	5,171,400	122,507	5,000	1:1010	1:1034

¹Metropolitan counties with 1,000,000 or more population (142 counties with 83,750,000 population and 144,080 non-federal patient care physicians) are excluded from this comparison because there are none in North Carolina.

Source: G. A. Roback, Distribution of Physicians in the U.S., 1972, volume 1. Chicago: American Medical Association, 1973. pp. 7, 14, 140-141, 246-251.

APPENDIX II: NORTH CAROLINA PHYSICIAN PROJECTIONS

In order to facilitate planning of medical education programs, several projections of physician manpower in North Carolina have been prepared. It is important that these be reviewed periodically in light of actual changes in the North Carolina physician population. "Actual count" data are available and are presented below for comparison with two of these physician projections.

Total non-federal physicians were projected through 1985 in a report of the North Carolina Joint Conference Committee on Medical Care from a 1970 baseline of 5,386 physicians.¹ The projections for 1971-1974 can be compared to actual count figures provided by the American Medical Association:²

	<u>PROJECTED</u>	<u>ACTUAL</u>
1970	5,386	5,386
1971	5,528	5,524
1972	5,681	5,694
1973	5,884	5,995
1974	6,007	6,370

Growth in the physician population thus far has well-exceeded the projected rate of increase which predicts 8,630 total non-federal physicians by 1985.

Another projection, for which a one-year actual count comparison is available, is that presented in a report from the President of the University of North Carolina to the Board of Governors.³ This projection focuses on non-federal patient care physicians rather than total non-federal physicians. Numbers of physicians are projected year-by-year to a total of 9,254 by the end of 1990. From a baseline of 5,000 patient care physicians at the beginning of 1973, 5,130 were projected by the end of 1973. Actual count figures now available

for year-end 1973⁴ show 5,196 patient care physicians in North Carolina, an increase of 51% (66/130) more than the projected increase.

The focus on non-federal patient care physicians rather than total non-federal physicians means that such persons as administrators, researchers, and inactive physicians are excluded. This forces a reliance on proper categorization of a physician as "patient care," a distinction which is based upon percentage of time spent in patient care activities. Often physicians may not be classified as "patient care" even though some percentage of their time is spent in that activity. In addition, many physicians are assigned to a "no classification" category due to questionnaire non-response and thus are automatically excluded from consideration for the "patient care" category. Since a complete census of physicians by the American Medical Association in 1968, the number of "not classified" physicians in North Carolina has increased from 2 in 1970, to 67 in 1971, to 146 in 1972, to 226 in 1973.⁵ The classification problems mentioned here indicate a potential undercount of patient care physicians in the actual count figure presented above and an even greater underestimate of patient care physicians by the projection.

Both projections mentioned above are based on five major components: retention rates of the North Carolina medical schools, in-migration of out-of-state medical school graduates, in-migration of foreign medical school graduates, retirements, and deaths. The first three components are particularly subject to changes in the attractiveness of North Carolina as a permanent location for physicians, and the first two - in-state medical school graduate retention and out-of-state in-migration - provide the bulk of the change in North Carolina's physician population. Accuracy of physician projections such as those above

depends mainly on the valid estimation of past retention and in-migration rates and on whether or not past trends in retention and in-migration remain the same in the future. Estimation of past retention and in-migration rates is a major difficulty due to a lack of longitudinal data on physician movement after medical school graduation and due to the long time lag between medical school graduation and permanent location. For instance, a 1971 study of University of North Carolina graduates found that "the number of all graduates who had completed post-M.D. training after twelve graduating classes was only about half of all graduates in that time."⁶ In the past, some of the time lag was a result of mandatory military obligations of physicians. Implementation of the National Health Service Corps and possible future changes in manpower distribution policies continue to make the permanent location time lag a difficult figure to estimate.

In closing, it should be noted that the North Carolina Board of Medical Examiners is cooperating in the automation of its licensing files, so that an alternative baseline source for physician projections and an alternative to the currently available patient care classification scheme should be available in the near future.

FOOTNOTES

¹Report of the Subcommittee on Medical Students and Manpower of the North Carolina Joint Conference Committee on Medical Care, North Carolina Medical Journal 34,3 (March 1973), pp. 210-215.

²1970-1974 actual count data are 12/31/69, 12/31/70, 12/31/71, 12/31/72 and 12/31/73 figures from Distribution of Physicians in the U.S. series of the American Medical Association.

³Report of the President to the Board of Governors, "Recommended Actions Consistent with the Report of the Panel of Medical Consultants on A Statewide Plan for Medical Education in North Carolina," November 16, 1973, pp. 48-50.

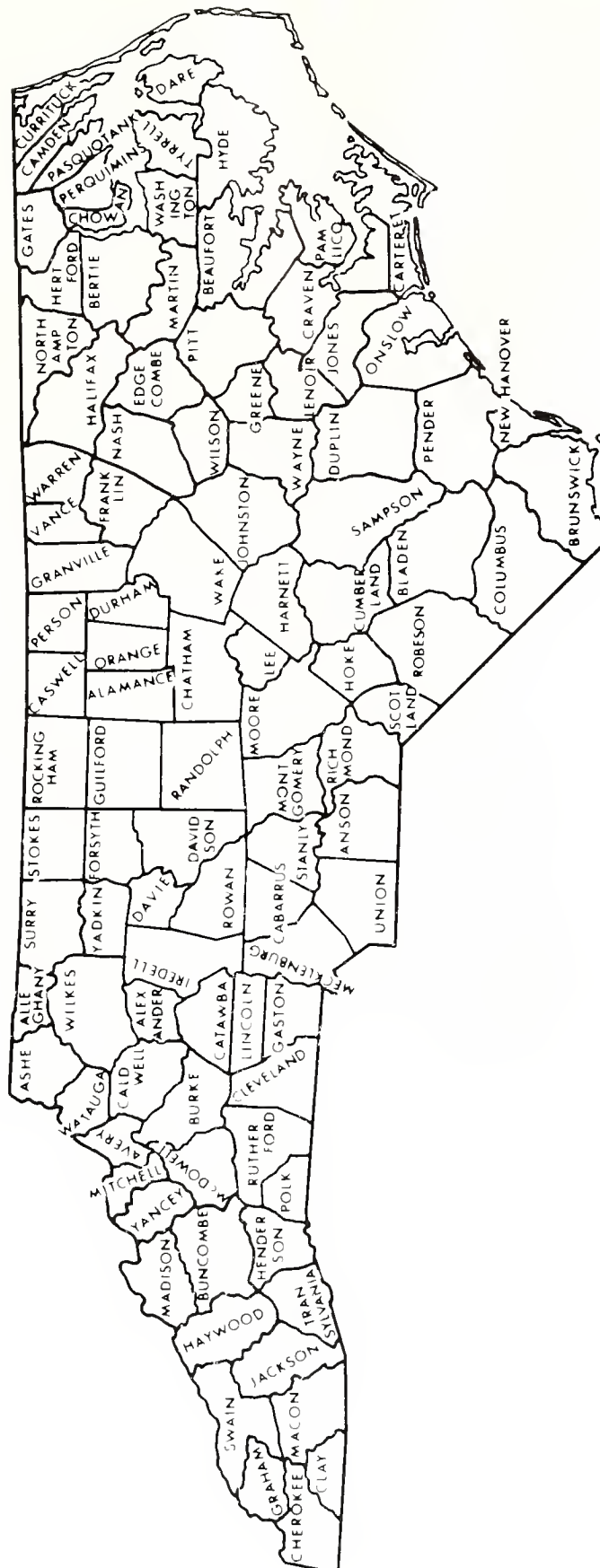
⁴By telephone from G. A. Roback, Department of Survey Research, American Medical Association, 1/3/75.

⁵12/31/70, 12/31/71, 12/31/72, and 12/31/73 "not classified" figures from Distribution of Physicians in the U.S. series of the American Medical Association.

⁶Social Research Section, University of North Carolina at Chapel Hill, Survey of U.N.C. Medical School Graduates: Classes of 1964-1965, August 1971. p. 21.

APPENDIX III

NORTH CAROLINA COUNTY REFERENCE MAP



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